

CLAIMS

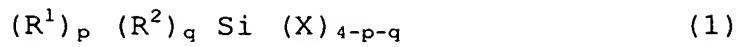
1. A method for manufacturing an optical waveguide chip having an optical waveguide and an optical fiber guide portion for 5 positioning an optical fiber to be connected with the optical waveguide, which comprises the following steps (A) and (B):

(A) a step for forming an optical waveguide using a radiation-sensitive polysiloxane composition; and (B) a step for forming an optical fiber guide portion using the 10 same or a different radiation-sensitive composition as/from the material of the optical waveguide.

2. The method for manufacturing an optical waveguide chip according to claim 1, which comprises (C) a step for fixing a cover 15 member on the upper surface of the optical waveguide formed by the step (A).

3. The method for manufacturing an optical waveguide chip according to claim 1 or 2, wherein the radiation-sensitive 20 polysiloxane composition comprises the following components (a) and (b), and has a silanol (Si-OH) group content of from 10 to 50 percent based on the total bonds on Si:

(a) at least one type of compound selected from the group consisting of hydrolysates of hydrolyzable silane compounds represented by 25 the following general formula (1) and condensation products of said hydrolysates,



[In the formula, R^1 is a non-hydrolyzable organic group having 1 to 12 carbon atoms and at least one fluorine atoms; R^2 is a non-hydrolyzable organic group having 1 to 12 carbon atoms
5 (excepting a group having a fluorine atom); X is a hydrolyzable group; p is 1 or 2; q is 0 or 1.]; and

(b) a photo-acid generator.